

# SCMS SCHOOL OF ENGINEERING & TECHNOLOGY

VIDYA NAGAR, KARUKUTTY, ERNAKULAM – 683576, PHONE: 0484-2882900, 2450330

E-Mail: [sset@scmsgroup.org](mailto:sset@scmsgroup.org) Website: [www.scmsgroup.org/sset](http://www.scmsgroup.org/sset)

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## *PhD Certificates* 2022-23





# National Institute of Technology Tiruchirappalli

hereby confers the degree of

*Doctor of Philosophy*

*of the institute*

*on*

**JENSON JOSEPH E**

*for successfully completing the prescribed programme  
of study and presenting the thesis entitled*

**Manufacturing and Characterization of  
Tungsten Particulate Reinforced High –Density Polyethylene and  
Epoxy resin Composites**



*Given this day the Seventh of November 2020  
Under the seal of the Institute*



TIRUCHIRAPPALLI - 620 015, INDIA



*Amichella*  
Registrar

*Manikandan*  
Director

*[Signature]*  
Chairperson  
Board of Governors



Register No : 09ADRPME001

Folio No : 00823



# KARPAGAM UNIVERSITY

Karpagam Academy of Higher Education

(Established Under Section 3 of UGC Act 1956)

Coimbatore - 641 021, India

The Board of Management of the **KARPAGAM UNIVERSITY** hereby makes known that **MANOJ KUMAR.B**

has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY in MECHANICAL ENGINEERING**

under the **FACULTY OF ENGINEERING**


having been certified by the duly appointed examiners to be qualified to receive the same on **15<sup>th</sup> June 2016**

Coimbatore

Dated : 12.11.2016



THE SEAL OF UNIVERSITY

  
CONTROLLER OF EXAMINATIONS

  
REGISTRAR

  
VICE-CHANCELLOR



10022947



**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
**(A State Government University)**  
**Thiruvananthapuram, Kerala, India - 695 016**

**PROVISIONAL DEGREE CERTIFICATE**

*This is to certify that the candidate has provisionally qualified for the award of degree of Doctor of Philosophy of the University*

Name : JAYADEVAN P C  
Register No : D-TCR15JUL005  
Degree : Ph. D.  
Date of Viva-voce Exam : 27/02/2020  
Title of thesis : Analysis of fluid flow through microchannels with manufactured roughness level

Place: Thiruvananthapuram

Date: 22/06/2020

  
Dean (Research)

File No: 20/12/00001







P170075NS

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut

*upon the recommendation of the Senate, hereby confers on*

**ALBIN JOSEPH**

*the degree of*

**Doctor of Philosophy**

in the year 2022

Based on the thesis entitled:

**INVESTIGATIONS ON NANOFLUIDS AND THIN-FILM FOR  
PERFORMANCE IMPROVEMENT OF DIRECT ABSORPTION SOLAR  
PARABOLIC TROUGH COLLECTOR**

*Given at the National Institute of Technology Calicut*

on September 03, 2022



Registrar

Director & Chairman Senate

Chairperson Board of Governors

Date of Viva-voce Examination : 30-03-2022





# Cochin University of Science and Technology



## FACULTY OF ENGINEERING

*The Academic Council of the Cochin University of Science and Technology hereby makes known that.....*

**Anitha G Pillai**

*is admitted to the Degree of*

## DOCTOR OF PHILOSOPHY

*under the Faculty of Engineering, he/she having been certified by duly appointed examiners to be qualified to receive the same.*

*Given under the Seal of the University, this day, the.....* 16th February, 2015



*University Buildings*

*Kochi - 682 022*

*Issued on ..... 13/03/2015*

*[Signature]*  
Vice-Chancellor.



**Cochin University of Science and Technology**  
കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല



Register Number : 4448

*The Academic Council of the Cochin University of Science and Technology  
hereby makes known that*

**SANJU SREEDHARAN**

*is admitted to the Degree of*

**DOCTOR OF PHILOSOPHY**

*under the*

**FACULTY OF ENGINEERING**

*she having been certified by duly appointed examiners to  
be qualified to receive the same.*

*Title of the thesis :*

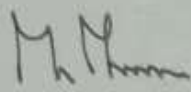
**"Bio-Fuel Cells: Sustainable Technology for the Treatment of Coconut Industry  
Wastewater".**

*This award is effective from 03 March, 2022.*

*Given under the seal of the University this day, 30 March, 2022.*

Kochi -682 022  
Kerala, India.

Sl.No:0124777

  
Vice - Chancellor



# भारतीय प्रौद्योगिकी संस्थान मुंबई

रतीश एम.

को एतद्द्वारा

विद्या वाचस्पति

की उपाधि प्रदान करता है ।

अभिषद की अनुशंसा पर संस्थान की मुद्रांकित यह उपाधि अवाप्ति हेतु विनियमों में विहित अपेक्षाओं को पूर्ण कर लेने पर तथा अपने शोध-प्रबंध के सफल पक्षपोषण के उपरांत मुंबई, भारतीय गणराज्य मे आज 9 अगस्त, 2014 को दी गई है ।

## Indian Institute of Technology Bombay

upon recommendation of the Senate hereby confers the degree of

**Doctor of Philosophy**

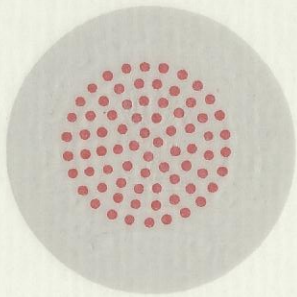
on

**Ratish M.**

who has fulfilled the requirements for the degree as prescribed under the regulations and successfully defended the thesis entitled:

“Multi Sensory Analysis of Aerosol Properties and Patterns Over India.”

Given this day, under the seal of the Institute at Mumbai in the Republic of India, the 9th day of August 2014.



अध्यक्ष, अभिषद  
Chairman, Senate

कुलसचिव  
Registrar

अध्यक्ष, शासी मंडल  
Chairman, Board of Governors



Serial No. 152053

Enrolment No

## भारतीय प्रौद्योगिकी संस्थान रुड़की

अभिषद् की अनुशंसा पर  
विद्या वाचस्पति  
की उपाधि

निषा एल

जिन्होंने इस उपाधि की अवाप्ति हेतु विनियम विहित अपेक्षाओं को सन् 2015 में सफलतापूर्वक पूरा कर लिया है, एतद्वारा प्रदान करता  
शोध प्रबन्ध शीर्षक: रिमूवल ऑफ डिजोल्वड ऑर्गेनिक कार्बन (डीओसी) डूरिंग रिवरबैंक फिल्ट्रेशन  
भारतीय गणराज्य के अन्तर्गत रुड़की में आज, दिनांक 3 अक्टूबर 2015, संस्थान की मुद्रा अंकित यह उपाधि दी गई।

### INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

On the recommendation of the Senate hereby confers the degree of

Doctor of Philosophy

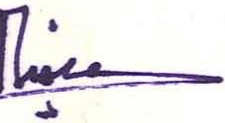
upon

NISHA L

who has successfully completed in the year 2015 the requirements prescribed under the regulations for the award of this degree

Thesis Title: REMOVAL OF DISSOLVED ORGANIC CARBON (DOC) DURING RIVERBANK FILTRATION

Given this day, the 3<sup>rd</sup> of October 2015, under the seal of the Institute at Roorkee in the Republic of India.



शासक परिषद्  
Board of Governors



निदेशक एवं अध्यक्ष, अभिषद्  
Director & Chairman, Senate

  
कुलसचिव  
Registrar







**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**

**(A State Government University)**

**Thiruvananthapuram, Kerala, India - 695 016**

*The Board of Governors of  
APJ Abdul Kalam Technological University*



*heroby confers the degree of  
Doctor of Philosophy  
of the University*

*on*

**PRASEEJA A V**

*for successfully completing the prescribed  
programme of Study and presenting the  
thesis entitled*

**GROUNDWATER CONTAMINATION DUE TO LNAPL  
HYDROCARBONS AND ITS REMEDIATION USING NATURAL  
FIBRES**

*This award is effective from 7<sup>th</sup> of October, 2021*

*Given this day the 8<sup>th</sup> of December, 2021*

*Under the seal of the University*

**Register Number : D-TCR15JUL002**



*[Signature]*

**Vice-Chancellor**



Authorized Signatory  
APJ Abdul Kalam Technological University  
Date: Thu Jul 07 12:46:33 IST 2022



No.: A/12 12872

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut



*Upon the recommendation of the Senate hereby confers on*

**AKHILA M**

*the degree of*

*Doctor of Philosophy*

*in the year 2019*

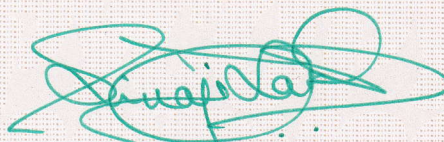
*Based on the thesis entitled:*

**LIQUEFACTION OF SILTS AND LOW PLASTIC CLAYS**

*Given at the National Institute of Technology Calicut*

*on 21<sup>st</sup> September, 2019*

  
Registrar

  
Director

  
Chairman  
Board of Governors





सरदार वल्लभभाई राष्ट्रीय प्रौद्योगिकी संस्थान, सूरत (गुजरात, भारत)  
SARDAR VALLABHBHAI NATIONAL INSTITUTE OF TECHNOLOGY, SURAT (GUJARAT, INDIA)

*Upon recommendation of the Senate*

*hereby confers the degree of*

**Doctor of Philosophy**

*in Civil Engineering*

*on*

**RAHUL R PAI**

*who has fulfilled the requirements for the degree as  
prescribed under the regulations and has successfully defended in*

*May 2022, the thesis entitled:*

**Performance and Design Evaluation of Test Tracks of Flexible Pavements with  
Waste Materials in Base Layers**

*Given this day, under the seal of the Institute at Surat*

*in the Republic of India,*

*the Twenty Seventh of September, 2022.*



  
Registrar

  
Chairman,  
Senate & Board of Governors



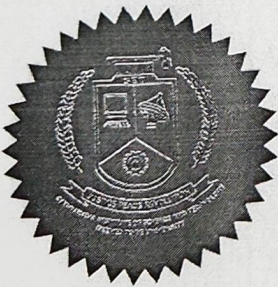


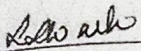
**SATHYABAMA**  
**INSTITUTE OF SCIENCE AND TECHNOLOGY**  
(Deemed to be University Under Section 3 of UGC Act, 1956)




The Board of Management of Sathyabama Institute of Science and Technology hereby makes known that **VARUN. G. MENON** has been conferred the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **FACULTY OF COMPUTER SCIENCE AND ENGINEERING**, having been certified by duly appointed examiners to be qualified to receive the same on **DECEMBER 2017** for the thesis entitled **ANALYSING THE BEHAVIOUR AND PERFORMANCE OF RELIABLE OPPORTUNISTIC ROUTING PROTOCOLS IN HIGHLY DYNAMIC AD HOC NETWORKS** given under the seal of the institution, at Chennai this **TWENTY SECOND day of JULY 2018**.

Given under the seal of the Institution

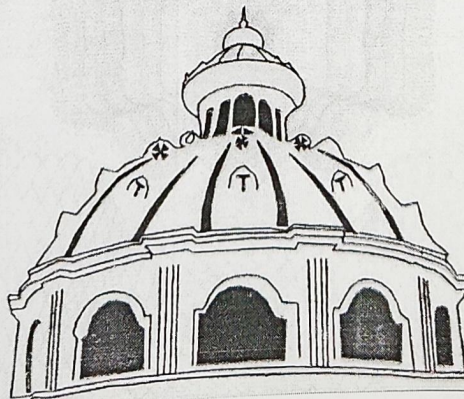


  
Vice Chancellor

  
Pro Chancellor



Dated : July 22, 2018



Jeppiaar Nagar,  
Chennai - 600119,  
Tamil Nadu, INDIA.





பொறியியற் புலம்  
FACULTY OF ENGINEERING

மனோன்மணியம் சுந்தரனார் பல்கலைக்கழக ஆட்சிக்குழு  
மேனிஷ் டி ஐ

கணினி அறிவியல் மற்றும் பொறியியல் பாடப்பிரிவில்

அறிஞர் பட்டம் பெறுவதற்குத் தகுதியுடையவர் என முறையாக அமைக்கப்பெற்ற  
தேர்வினோர் சான்றளித்தவாறு நவம்பர் 2015 ஆம் ஆண்டில்  
இப் பட்டப்பேற்றுக்கு உரியவர் ஆகின்றார் என இதன்வழி அறிவிக்கின்றது.

பல்கலைக்கழக முத்திரையுடன் இது வழங்கப்படுகின்றது.

The Syndicate of the **MANONMANIAM SUNDARANAR UNIVERSITY**  
hereby makes known that **MANISH TI**  
has been admitted to the Degree of Doctor of Philosophy in  
**COMPUTER SCIENCE & ENGINEERING**  
he/she having been certified by duly appointed Examiners to be qualified  
to receive the same in the year **NOVEMBER 2015**



Given under the seal of the University.

திருநெல்வேலி, இந்தியா  
Tirunelveli, India

நாள் Dated 13.02.2016

*Selvi Prabahar*  
(Dr.S.Prabahar)

தேர்வாணையர்  
Controller of Examinations

*Dr. A. John De Britto*  
(Dr.A.John De Britto)

பதிவாளர்  
Registrar

*Selvi. Apoorva I.A.S.*  
(Selvi. Apoorva I.A.S.)  
(Convenor)

துணை வேந்தர்  
Vice-Chancellor



REG. NO. : 7531310016



# SRM

## INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY UNDER SECTION 3 OF THE UGC ACT, 1956)

*Faculty of Engineering and Technology*

The Board of Management of the SRM Institute of

Science and Technology hereby makes known that

**SONAL AYYAPPAN**

has been admitted to the Degree of Doctor of Philosophy

having been certified by duly appointed examiners to be

qualified to receive the same in JULY - 2022

Title of the Thesis:

IMAGE DEDUPLICATION METHOD FOR SECURED TRANSMISSION  
AND STORAGE OF MEDICAL IMAGES (COMPUTER SCIENCE AND  
ENGINEERING).



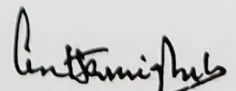
Given under the seal of the University



DATED : 25 SEP 2022

SRM NAGAR, KATTANKULATHUR - 603 203  
KANCHEEPURAM (DIST.), TAMILNADU, INDIA.

  
REGISTRAR

  
VICE-CHANCELLOR



# Mahatma Gandhi University

(Established by Kerala State Legislature by Notification No. 3431/Leg C1/85/Law, dated 17th April 1985)



## FACULTY OF ENGINEERING AND TECHNOLOGY

*The Syndicate of the Mahatma Gandhi University  
hereby makes known that*

**Smt. ANU V.R.**

*has been admitted to the Degree of*

**DOCTOR OF PHILOSOPHY  
in  
Computer Science**

*she having been certified by duly appointed examiners to be qualified to  
receive the same.*

**Title of the Thesis : Performance Optimization Techniques for Virtual  
Machines in Cloud Environment**

*Given under the seal of the University*

Date of Syndicate Decision: 30-04-2019

University Buildings  
Priyadarshini Hills P.O.  
Kottayam - 686 560  
Kerala, India



*[Signature]*  
Vice-Chancellor



Folio :D 08947



# BHARATHIAR UNIVERSITY

COIMBATORE - 641 046

## Ph.D. PROVISIONAL CERTIFICATE

This is to certify that **DEEPA K** has qualified for  
the award of the Degree of **DOCTOR OF PHILOSOPHY** of this University in  
**COMPUTER SCIENCE** on **02/09/2022** after having  
completed the requirements prescribed for the award of the Degree.



Controller of Examinations *Ho*

Coimbatore 641 046

Date : **21 NOV 2022**



# NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

(Declared as Deemed-to-be University Under section 3 of the UGC Act, 1956)  
Kumaracoil - 629 180, Kanyakumari Dist., Tamil Nadu, India.



## PROVISIONAL CERTIFICATE

Folio No.: **PH0269**


This is to certify that the candidate has qualified for the award of **Degree of Doctor of Philosophy** in compliance with the UGC Regulations, 2009 as detailed below:

Name : **GAYATHRY S WARRIER**  
Registration Number : **1115908206**  
Degree : **Ph.D.**  
Department : **COMPUTER SCIENCE AND ENGINEERING**  
Faculty : **Information and Computer Engineering**  
Date, Month & Year of Viva-voce Examination held : **26-11-2022**  
Title of the Thesis : **A FEATURE BASED REFINED APPROACH FOR SCOLIOTIC DETECTION**

Place : Kumaracoil

Date : **05 DEC 2022**



  
CONTROLLER OF EXAMINATIONS



# NOORUL ISLAM CENTRE FOR HIGHER EDUCATION

(Declared as Deemed-to-be University Under section 3 of the UGC Act, 1956)  
Kumaracoll - 629 180, Kanyakumari Dist., Tamil Nadu, India.



## PROVISIONAL CERTIFICATE

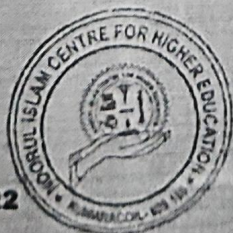
Folio No.: **PH0270**

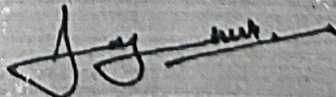
This is to certify that the candidate has qualified for the award of  
**Degree of Doctor of Philosophy** in compliance with the UGC  
Regulations, 2009 as detailed below:

Name : **ARSHEY M**  
Registration Number : **1115908203**  
Degree : **Ph.D.**  
Department : **COMPUTER SCIENCE AND ENGINEERING**  
Faculty : **Information and Computer Engineering**  
Date, Month & Year of  
Viva-voce Examination held : **09-12-2022**  
Title of the Thesis : **FRACTIONAL EARTHWORM OPTIMIZATION  
DRIVEN DEEP LEARNING CLASSIFIER FOR  
PHISHING E-MAIL AND ATTACK DETECTION**

Place : **Kumaracoll**

Date : **12 DEC 2022**



  
**CONTROLLER OF EXAMINATIONS**





**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**  
(DEEMED TO BE UNIVERSITY UNDER SECTION 3 OF THE UGC ACT, 1956)



PROVISIONAL CERTIFICATE

FACULTY OF ENGINEERING AND TECHNOLOGY

Folio No.: AG220213

This is to certify that the following candidate has qualified for the award of Ph.D. as detailed below :

Register Number : PA1813003012011

Name : ASWATHY K CHERIAN [22-MAY-1990]

Degree / Diploma : DOCTOR OF PHILOSOPHY [Ph.D.]

Branch / Specialisation : COMPUTER SCIENCE AND ENGINEERING

Month and Year of Passing : DECEMBER - 2022

Title of the Thesis : AN ENHANCEMENT SYSTEM FOR UNDERWATER IMAGES USING TGBF AND ALPHA - SRGAN [COMPUTER SCIENCE AND ENGINEERING]

Signature of the Candidate :

Date : 05-Dec-2022

SRM Nagar, Kattankulathur - 603 203  
Chengalpattu (Dt), Tamil Nadu, India.



CONTROLLER OF EXAMINATIONS

This certificate bears no corrections(s)



# KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION

(Deemed to be University)  
(Under Section 3 of UGC Act 1956)



Register No.

201807261

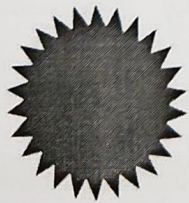
The Board of Management of the Kalasalingam Academy of Research and Education hereby makes known that Mr/Ms SCARIA ALEX has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **FACULTY OF COMPUTER SCIENCE AND ENGINEERING** having been certified by the duly appointed examiners to be qualified to receive the same in the year 2022.

The degree has been awarded in compliance with the "University Grants Commission, Regulation 2016"

Title of the thesis:

**A HYBRID CLASSIFICATION OF ALGORITHM FOR EFFECTIVE DETECTION OF MALICIOUS JAVASCRIPT CODE**

Given under the seal



Anand Nagar,  
Krishnankoil - 626 126,  
Tamil Nadu, India

Date: 24-02-2023

*[Signature]*  
Controller of Examinations

*[Signature]*  
Registrar

*[Signature]*  
Vice - Chancellor





**Noorul Islam Centre for Higher Education**  
 (Deemed-to-be-University under section 3 of the UGC Act 1956)



Reg. No.: **0113910208**

The Board of Management of the **Noorul Islam Centre for Higher Education** hereby makes known that **PARVATHY M** has been admitted to the **Degree of Doctor of Philosophy** in **ELECTRONICS AND COMMUNICATION ENGINEERING** under the *Faculty of Electrical and Electronics Engineering*, having completed the prescribed programme of study and having been certified by the duly appointed examiners to be qualified to receive the same in **August 2019**.

*Title of the Thesis:* **ENHANCEMENT OF FULLY PARALLEL TURBO DECODER USING DIFFERENT ALGORITHMS FOR COMMUNICATION APPLICATIONS.**



*Given under the seal of the University*

**NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE**

Dated : **23 NOV 2019**

Kumaracoil-629 180  
Kanyakumari Dist.,  
Tamil Nadu  
India.

  
**Controller of Examinations**



  
**Registrar**

  
**Vice-Chancellor**





**Noorul Islam Centre for Higher Education**  
 (Deemed-to-be-University under section 3 of the UGC Act, 1956)



Reg. No.: **0113910212**

The Board of Management of the **Noorul Islam Centre for Higher Education** hereby makes known that **SREEJA K A** has been admitted to the **Degree of Doctor of Philosophy** in **ELECTRONICS AND COMMUNICATION ENGINEERING** under the *Faculty of Electrical and Electronics Engineering*, having completed the prescribed programme of study and having been certified by the duly appointed examiners to be qualified to receive the same on **28-10-2021** (the date of viva-voce Examination).

**Title of the Thesis:** **RETINAL HEMORRHAGE DETECTION USING SUPERVISED LEARNING: A HARDWARE IMPLEMENTATION**



*Given under the seal of the University*

NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE NICHE

Dated: **23 DEC 2021**

Kumaracoil-629 180  
 Kanyakumari Dist,  
 Tamil Nadu,  
 India

*[Signature]*  
 Controller of Examinations



*[Signature]*  
 Registrar

*[Signature]*  
 Vice-Chancellor



# Anna University



Reg.No. 17244697468/RG

*The Syndicate of the Anna University hereby makes known that*  
**KEERTHANA G** *has been admitted to the* **DEGREE OF DOCTOR OF PHILOSOPHY** *under the* **Faculty of Information and Communication Engineering**, *having been certified by the duly appointed examiners to be qualified to receive the same in the year* **2022**. *The degree has been awarded in compliance with the "University Grants Commission, Regulations 2016".*

*Title of the Thesis:*

**IMPROVING THE ROBUSTNESS AND SECURITY IN A REAL TIME AND SCALE-FREE WIRELESS SENSOR NETWORK**

*Given under the Seal of the University*



Chennai 600 025  
India  
July 2022  
SARASWATHI

*P. Senthil*  
Controller of Examinations

*P. M.*  
Registrar

*R. V. Vij*  
Vice-Chancellor





# Indian Institute of Technology, Madras

hereby confers the degree of  
**Doctor of Philosophy**  
of the Institute

on

**JAYANAND B**

*for successfully completing the prescribed programme of study and  
presenting the thesis entitled*

**SIMULATION STUDIES ON SPEED SENSORLESS OPERATION OF VECTOR  
CONTROLLED INDUCTION MOTOR DRIVES USING NEURAL NETWORKS**

*Given this day the Thirtieth of July, 1998  
under the seal of the Institute.*

*[Signature]*  
Registrar

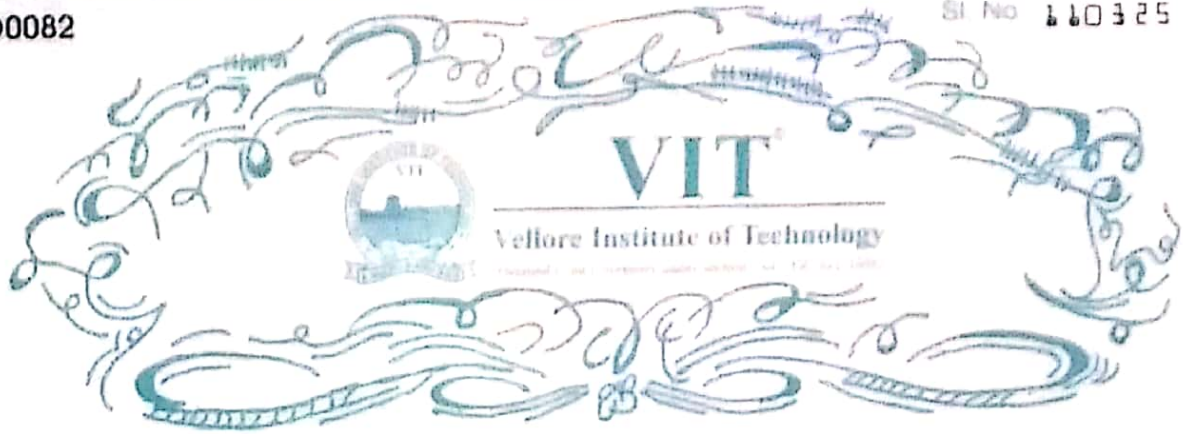
*[Signature]*  
Director

*[Signature]*  
Chairman Board of Governors



14PHD0082

SI No 110325



The Board of Management of the  
Vellore Institute of Technology (VIT)  
hereby confers on

DIVYA NATH .K

the degree of

DOCTOR OF PHILOSOPHY

in recognition of the research work entitled

NON-DESTRUCTIVE METHOD TO MEASURE MOISTURE CONTENTS IN FOOD ITEMS

for having fulfilled the prescribed requirements.

The degree has been awarded in compliance with the  
"University Grants Commission, Regulations 2009"

given this day the 05 November 2019

Given under the seal of this university



  
Vice - Chancellor



  
Chancellor

Dated: 10-Sep-2020

Vellore - 632 014, Tamil Nadu, India



राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut



*Upon the recommendation of the Senate hereby confers on*

**RAG R L**

*the degree of*

*Doctor of Philosophy*

*in the year 2010*

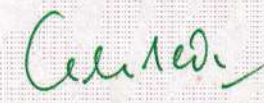
*Based on the thesis entitled:*

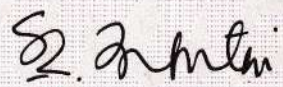
*"Investigations on an Array of Wire-Rounded Micro Heat Pipes"*

*Given at the National Institute of Technology Calicut*

*on 16<sup>th</sup> October, 2010*

  
Registrar

  
Director

  
Chairman  
Board of Governors



# Cochin University of Science and Technology

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല



Register Number : 3537

*The Academic Council of the Cochin University of Science and Technology  
hereby makes known that*

**MAHESA RENGARAJ R**

*is admitted to the Degree of*

**DOCTOR OF PHILOSOPHY**

*under the*

**FACULTY OF ENGINEERING**

*he having been certified by duly appointed examiners to  
be qualified to receive the same.*

*Title of the thesis :*

**"INFLUENCE OF PERSONAL ATTRIBUTES AND EMPLOYMENT AND WORK  
FACTORS ON WORK INJURIES AMONG WELDERS"**

*This award is effective from 17/07/2017.*

*Given under the seal of the University this day, 02 August, 2017.*

Kochi -682 022  
Kerala, India.

SI No: 0095514



*[Signature]*  
Vice - Chancellor





# Karunya

**INSTITUTE OF TECHNOLOGY AND SCIENCES**

(Deemed-to-be-University)

Accredited by NAAC

KARUNYA NAGAR, COIMBATORE - 641 114, TAMIL NADU, INDIA.

Reg. No. : **RP15ME005**

Mode of Study : **Part Time**



*The Board of Management  
of  
Karunya Institute of Technology and Sciences,  
a Deemed-to-be-University  
hereby makes known that*

**VIDYA CHANDRAN**

*has been admitted to the Degree of*

**Doctor of Philosophy**

**in**

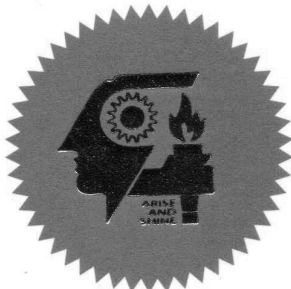
**Mechanical Engineering**

**under the Faculty of Engineering**

*having been certified by duly appointed examiners to be  
qualified to receive the same in July 2020*

*Title of the Thesis :*

*Studies on hydroelastic response of marine risers under vortex induced vibration*



*Given under the seal of the Deemed-to-be-University*

*Dated: 10<sup>th</sup> October 2020*

*Paul Chinakaran*

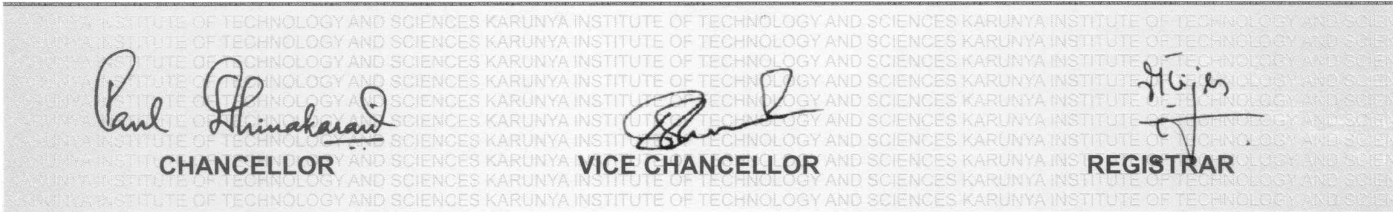
**CHANCELLOR**

*[Signature]*

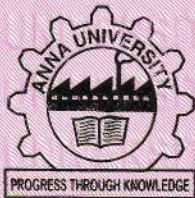
**VICE CHANCELLOR**

*[Signature]*

**REGISTRAR**







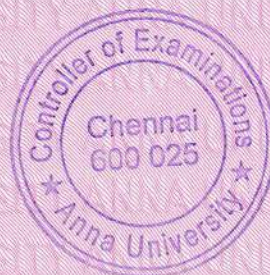
# ANNA UNIVERSITY CHENNAI - 600 025

## PROVISIONAL CERTIFICATE

Folio No.: RAR015014

This is to certify that the candidate has qualified for the award of *Degree of Doctor of Philosophy* in compliance of the UGC Regulations 2009 as detailed below:

Name : RAGHAV G R  
Registration Number : 1515579739  
Degree : Ph.D.  
Department/Centre/Subject : MECHANICAL ENGINEERING  
Faculty : TECHNOLOGY  
Date, Month & Year of Viva-Voce : 06.01.2020  
Examination held : 06.01.2020  
Title of the Thesis : DRY SLIDING WEAR AND CORROSION  
STUDIES OF COBALT BASED  
NANOCOMPOSITES BY POWDER  
METALLURGY PROCESS



Chennai - 600 025

Controller of Examinations

Date: 06-FEB-2020



Registration No.



110675MT11F02



**National Institute of Technology Karnataka, Surathkal**

hereby confers the degree of

**Doctor of Philosophy**



on

*Gibin George*

in recognition of the research work on

"INFLUENCE OF POLYMERIC BINDERS ON THE PHYSICO-CHEMICAL  
PROPERTIES OF SOL-GEL ELECTROSPUN NICKEL OXIDE AND COBALT  
OXIDE NANOFIBERS"

carried out in the Department of  
**Metallurgical And Materials Engineering**

and completed all the requirements

in November 2015

Given under the seal of the Institute,

on 14<sup>th</sup> November 2015

Registrar

Director

Chairperson, Board of Governors

Sl. No. PH15079





राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut

Sl.No.: B/17 001639

NIT Campus (PO), Kozhikode, Kerala, India, PIN - 673 601

PROVISIONAL CERTIFICATE

***Doctor of Philosophy***

Certified that **Ms. ANJANA VISWANATH** (Roll No. **P130016ME**) has completed all the requirements of the Institute for the award of the degree of Doctor of Philosophy. Her oral examination was held on **26-02-2019** by a duly appointed Board of Examiners.

Title of the thesis : **METAHEURISTICS FOR THE MULTI-OBJECTIVE SCHEDULING OF A FLOW SHOP WITH SEQUENCE DEPENDENT SETUP TIME: DEVELOPMENT AND ANALYSIS**

Department : **Mechanical Engineering**

She will be awarded Ph.D. degree of the Institute in the next convocation subject to the approval of Senate and Board of Governors.



Date : **06 MAR 2019**

Deputy Registrar (Academic)

Valid for twelve months from the date of issue



No.: A/14 00129

राष्ट्रीय प्रौद्योगिकी संस्थान कालिकट  
National Institute of Technology Calicut



*Upon the recommendation of the Senate hereby confers on*

**MINI TOM**

*the degree of*

*Doctor of Philosophy*

*in the year 2015*

*Based on the thesis entitled:*

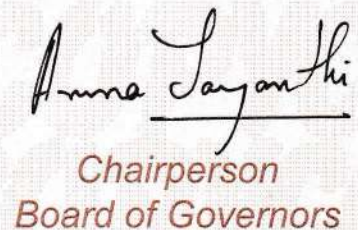
**"CONNECTIVITY, SUM DISTANCE, BOUNDARY AND INTERIOR NODES IN FUZZY GRAPHS"**

*Given at the National Institute of Technology Calicut*

*on 5<sup>th</sup> December, 2015*

  
Registrar

  
Director

  
Chairperson  
Board of Governors



RR 20028261



அறிவியற் புலம்

FACULTY OF SCIENCE

மதுரை காமராஜர் பல்கலைக்கழக ஆட்சிப்பேரவை

ஸ்ரீலேகா. பர்.

கணிதவியல் பிரிவில் மெய்ப்பொருளியல் நிறைஞர் பட்டம்

புத்தகுத் தகுதியுடையவர் என முறையாக அமைக்கப்பெற்ற தேர்வினோர் நவம்பர் 2008 இல் நடைபெற்ற

பரீட்சையில் சான்றளிக்கவானு, இரண்டாம் வகுப்பு

பற்று இச்சான்றிதழ் பெறுதற்கு உரியவர் ஆகின்றார் என இதன்வழி அறிவிக்கின்றது.

பல்கலைக்கழக இலச்சினையுடன் இது வழங்கப்படுகின்றது.

The Senate of the MADURAI KAMARAJ UNIVERSITY

by makes known that SREELEKHA B has been admitted to the

DEGREE OF MASTER OF PHILOSOPHY IN MATHEMATICS

she having been certified by duly appointed Examiners to be qualified to receive the same, and having been placed b

m in the SECOND CLASS at the Examination held in NOVEMBER 2008

Register No. : A5A6610002

Centre Code : 844



ISSUED ON  
18 NOV 2010

Given under the seal of the University

கலைநகர், மதுரை - 625 021  
Alainagar, Madurai - 625 021

கேர்வாணையர்

பரிசீலகர்

காணவேங்கர்



Certificate No.: A 057911

# University Grants Commission

## NATIONAL EDUCATIONAL TESTING BUREAU



### NATIONAL ELIGIBILITY TEST FOR LECTURESHIP

UGC Ref. No.: 20571(NET-DEC., 2006) Roll No. T161212

Certified that MS. RESHMA R

Son/Daughter of SHRI RAVEENDRANATH

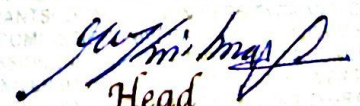
and SMT. SASIKALA M G

has qualified the UGC-NET Examination for eligibility for Lectureship held on  
17th DECEMBER, 2006 in the Subject EDUCATION

His/Her Post-graduation Subject is EDUCATION

Validity of the certificate is forever.

Date of Issue: 15 SEP 2007

  
Head  
NET Bureau

Note: a) UGC has issued the certificate based on the information provided by the candidate and his/her records/certificates have not been verified. The appointing authority should verify the original records/certificates of the candidate while considering him/her for appointment, as the Commission is not responsible for the same. The candidate must complete UGC specified Master's Degree within one year of date of UGC-NET.

b) Wherever ~~SC~~, PH or VH is shown in the UGC Ref. No., the recruitment body should check the relevant documents of ~~SC~~/Physically Handicapped/Visually Handicapped Candidates before appointment.





# Cochin University of Science and Technology



## FACULTY OF SCIENCE

*The Academic Council of the Cochin University of Science and Technology hereby makes known that.....* **Santhosh M V** *.....*  
*is admitted to the Degree of*

## DOCTOR OF PHILOSOPHY

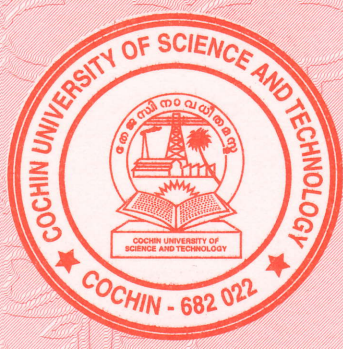
*under the Faculty of Science, he/she having been certified by duly appointed examiners to be qualified to receive the same.*

*Given under the Seal of the University, this day, the.....* **21st June, 2016** *.....*

*Sl. No.:* 0023087

*University Buildings  
Kochi - 682 022*

*Issued on .....* 19/07/2016 *.....*



*Shah*  
*Vice-Chancellor.*



Folio No. : 70521

Certificate No. : 0282



**GOVERNMENT OF KERALA**

**DIRECTORATE OF HIGHER SECONDARY EDUCATION**

**STATE ELIGIBILITY TEST - MAY 2007**

Roll No. :.....37210337.....

*Certified that Shri / Smt .....SURYA K A..... has*

*passed the State Eligibility Test prescribed as one of the qualifications for appointment as  
Higher Secondary School Teacher.*

*Date of Test : 27th May, 2007*

**Subject : .....MATHEMATICS.....**

Thiruvananthapuram

Date : 04-07-2007

  
Director

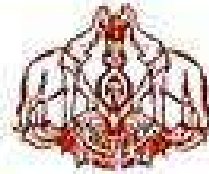




Folio No. : 21421

MA0053

Certificate No. : 00071



**GOVERNMENT OF KERALA**

**DIRECTORATE OF HIGHER SECONDARY EDUCATION**

**STATE ELIGIBILITY TEST - DECEMBER - 2013**

*Roll No. : 77210166*

*Certified that Shri / Smt SOPHIA CLEETUS has*

*passed the State Eligibility Test prescribed as one of the qualifications for appointment as*

*Higher Secondary School Teacher.*

*Date of Test : 2<sup>nd</sup> February 2014*

*Subject : MATHEMATICS*

Thiruvananthapuram

Date : 30/04/2015

Director



**Cochin University of Science and Technology**  
കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല



*Register Number : 4309*

*The Academic Council of the Cochin University of Science and Technology  
hereby makes known that*

**GEETHU R**

*is admitted to the Degree of*

**DOCTOR OF PHILOSOPHY**

*under the*

**FACULTY OF SCIENCE**

*she having been certified by duly appointed examiners to  
be qualified to receive the same.*

*Title of the thesis :*

**"Hybrid thin film solar cell fabrication using sprayed electron collective ZnO  
layer and spin or spray coated organic layer"**

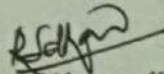
*This award is effective from 25 February, 2019.*

*Given under the seal of the University this day, 19 March, 2019.*

Kochi - 682 022  
Kerala, India.

SI No: 0109890



  
Vice - Chancellor





# Mahatma Gandhi University

(Established by Kerala State Legislature by the Gandhi University Act, 1985 (Act 12 of 1985) and amended as Mahatma Gandhi University Act, 1986 by Act 5 of 1986)  
University Buildings, Priyadarshini Hills P.O., Kottayam-686 560, Kerala, India

## FACULTY OF SCIENCE

*The Syndicate of the Mahatma Gandhi University  
hereby makes known that*

**Smt. NUJA M. UNNIKRISHNAN**  
*has been admitted to the Degree of*  
**DOCTOR OF PHILOSOPHY**

*in*

## MATHEMATICS

*she having been certified by duly appointed examiners to be qualified  
to receive the same.*

*Title of the Thesis :* **APPLICATION OF FUZZY SETS AND GRAPH THEORY  
IN MATHEMATICAL MORPHOLOGY**

*Given under the seal of the University*

Date of conduct of public viva-voce & award of Ph.D.: 06-06-2022



*Vice-Chancellor*

Date: 5-August-2022



# Cochin University of Science and Technology

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല



Register Number : 4410

*The Academic Council of the Cochin University of Science and Technology  
hereby makes known that*

**VIDYA LEKSHMI K P**

*is admitted to the Degree of*

**DOCTOR OF PHILOSOPHY**

*under the*

**FACULTY OF ENVIRONMENTAL STUDIES**

*she having been certified by duly appointed examiners to  
be qualified to receive the same.*

*Title of the thesis :*

**"MICROWAVE, PHOTO AND SONO ACTIVATED ADVANCED OXIDATION  
PROCESSES AND THEIR VARIATIONS FOR THE DECONTAMINATION OF WATER  
FROM TOXIC CHEMICAL POLLUTANTS"**

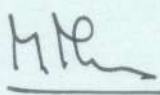
*This award is effective from 02 May, 2019.*

*Given under the seal of the University this day, 27 May, 2019.*

Kochi -682 022  
Kerala, India.

SI No: 0109919



  
Vice - Chancellor



# Cochin University of Science and Technology

കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവകലാശാല



*Register Number : 5226*

*The Academic Council of the Cochin University of Science and Technology  
hereby makes known that*

**NITHYA MOHAN**

*is admitted to the Degree of*

**DOCTOR OF PHILOSOPHY**

*under the*

**FACULTY OF SCIENCE**

*she having been certified by duly appointed examiners to  
be qualified to receive the same.*

*Title of the thesis :*

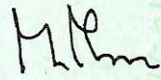
**"Novel salen-type Schiff bases and their 3d metal complexes: Theoretical studies, investigation on sensing, optical, biological and catalytic activities"**

*This award is effective from 28 October, 2019.*

*Given under the seal of the University this day, 15 November, 2019.*

Kochi -682 022  
Kerala, India.

**Sl.No:0117516**

  
Vice - Chancellor



UNIVERSITY OF CALICUT



Calicut University P. O.  
673 635

Folio No 126

Dated 2-11-1995

PROVISIONAL CERTIFICATE

Issued to..... Sunny George.....

Certified that the above candidate has been awarded the Degree of Doctor

of Philosophy (Ph. D.) in..... Zoology.....

under the faculty of..... Science.....



Handwritten initials or mark.

Handwritten signature of the Deputy Registrar.

Deputy Registrar  
Controller of Examinations of Calicut